**“Quadrant Match-up”**

***Objective:*** Students will be able to identify the location of the quadrant for a given coordinate pair within the coordinate plane.

***Background Knowledge:*** Students should understand that the coordinate plane is divided into four quadrants and that they are labeled.

***Materials:*** Graph paper and a set of cards

**Note:** If possible laminate the cards.

**Cards:** ***Set A needs to be blue***

***Set B needs to be yellow***

***Directions/Activity:***

1. Distribute sets of cards to each pair of students.
2. Instruct the students to place the I, II, III, IV quadrant cards face up between them on their desks.
3. Player A gets the blue set of cards and player B will get the yellow set of cards. Have each player shuffle their cards.
4. They should hold their stack face down in their hand. Once the teacher gives the signal, it is their job to place the coordinate cards into the correct quadrant piles. The first person that correctly places all of their cards is the winner. (The teacher will need to check)

**Note:** There are a few cards that don’t belong in a specific quadrant. Have the students create a 5th pile for those cards.

|  |  |
| --- | --- |
| **QUADRANT I** | **QUADRANT II** |
| **QUADRANT III** | **QUADRANT IV** |

Card Set A-Run on Blue Paper

|  |  |  |
| --- | --- | --- |
| (-4, 10) | (5, 5) | (-2, -4) |
| (20, 23) | (8, -3) | (2, 10) |
| (-3, -8) | (0, 0) | (1, 9) |
| (-1, -13) | (4, -5) | (100, 90) |
| (-34, 78) | (23, 9) | (-3, -3) |
| (9, -8) | (2, 4) | (12, -56) |
| (22, -45) | (-5, 8) | (-1, 0) |
| (3, 16) | (23, -6) | (50, 50) |
| (6, -7) | (-9, -12) | (56, -34) |
| (4, 4) | (-5, 20) | (32, -20) |

Card Set B-Run on Yellow Paper

|  |  |  |
| --- | --- | --- |
| (-4, 10) | (5, 5) | (-2,-4) |
| (20, 23) | (8, -3) | (2, 10) |
| (-3, -8) | (0, 0) | (1, 9) |
| (-1, -13) | (4, -5) | (100, 90) |
| (-34, 78) | (23, 9) | (-3, -3) |
| (9, -8) | (2, 4) | (12, -56) |
| (22, -45) | (-5, 8) | (-1, 0) |
| (3, 16) | (23, -6) | (50, 50) |
| (6, -7) | (-9, -12) | (56, -34) |
| (4, 4) | (-5, 20) | (32, -20) |

KEY

|  |  |  |
| --- | --- | --- |
| (-4, 10) II | (5, 5)I | (-2,-4)III |
| (20, 23) I | (8, -3)IV | (2, 10)I |
| (-3, -8)III | (0,0)NONE | (1, 9)I |
| (-1, -13)III | (4, -5)IV | (100, 90)I |
| (-34, 78)II | (23, 9)I | (-3, -3)III |
| (9, -8)IV | (2, 4)I | (12, -56)IV |
| (22, -45)IV | (-5, 8)II | (-1, 0)NONE |
| (3, 16)I | (23, -6)IV | (50, 50)I |
| (6, -7)IV | (-9, -12)III | (56, -34)IV |
| (4, 4)I | (-5, 20)II | (32, -20)IV |